Title (en)

BIMOLECULAR AUTOINHIBITED BIOSENSOR

Title (de)

BIMOLEKULARER SELBSTINHIBIERTER BIOSENSOR

Title (fr)

BIOCAPTEUR BIMOLÉCULAIRE AUTO-INHIBÉ

Publication

EP 3213073 A1 20170906 (EN)

Application

EP 15854978 A 20151027

Priority

- AU 2014904282 A 20141027
- AU 2015050669 W 20151027

Abstract (en)

[origin: WO2016065415A1] A biosensor comprises first and second molecular components and is capable of displaying non-protease enzyme activity in response to a binding event mediated by first and second binding partners of the biosensor. The first and second binding partners may bind each other directly or may both bind a target molecule. At least the first molecular component comprises an inhibited non-protease enzyme, whereby the binding event switches the enzyme from a catalytically inactive state to an active state. The second molecular component may comprise a protease that cleaves the first molecular component to release inhibition of the non-protease enzyme of first molecular component. Alternatively, the second molecular component may comprise a trap molecule that binds a bait molecule of the first molecular component to release inhibition of the non-protease enzyme of first molecular component.

IPC 8 full level

G01N 33/542 (2006.01); **C07K 19/00** (2006.01); **C12Q 1/34** (2006.01)

CPC (source: EP US)

C07K 14/4703 (2013.01 - EP); **C12N 9/506** (2013.01 - EP); **C12N 9/86** (2013.01 - EP); **C12N 9/90** (2013.01 - EP); **G01N 33/542** (2013.01 - EP US); **G01N 33/581** (2013.01 - EP); C07K 2319/00 (2013.01 - EP); C07K 2319/21 (2013.01 - EP); C07K 2319/50 (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2016065415 A1 20160506; EP 3213073 A1 20170906; EP 3213073 A4 20181024; US 2017315114 A1 20171102

DOCDB simple family (application)

AU 2015050669 W 20151027; EP 15854978 A 20151027; US 201515521971 A 20151027